## **AMENDMENTS TO THE CLAIMS**

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- 1-25. (Canceled)
- 26. (Previously Presented) A device according to claim 29, wherein the control unit and the dressing are integrated with each other.
  - 27-28. (Canceled)
  - 29. (Currently Amended) A device for treating tissue, the device comprising: a dressing for applying to a treatment area of said tissue;
  - a pair of electrodes affixed to a treatment surface of the dressing; and
- a control unit for passing alternating current to the treatment area via the electrodes and for constantly varying the amplitude of the alternating current to electrically stimulate and repair said tissue.
- 30. (Original) A device according to claim 29, wherein the alternating current is varied between 50 and 500 microamps.
- 31. (Previously Presented) A device according to claim 29, wherein the frequency of the alternating current is varied between 10 and 900 hertz.
- 32. (Currently Amended) A device according to claim 29, wherein the time period between each variation of amplitude and/or frequency is 0.1 s.
- 33. (Previously Presented) A device according to claim 29, wherein the alternating current has a ramp waveform.
- 34. (Withdrawn) A device according to claim 26, wherein the control unit is etched into a substrate.
- 35. (Previously Presented) A device according to claim 29, wherein the control unit comprises:

a housing; and

electronic circuitry in the housing connected to the pair of electrodes.

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Amendment dated May 12, 2010
Amendment Acoompanying Request for Continued Examination

36. (Previously Presented) A device according to claim 35, wherein the electronic circuitry comprises memory storing at least one program for determining the amplitude, frequency and waveform of alternating current supplied to the electrodes.

- 37. (Previously Presented) A device according to claim 36, wherein the control unit further comprises an i/o port connected to the electronic circuitry, such that an external device can connect to the control unit via the i/o port and update the memory and controlling operation of the control unit.
- 38. (Previously Presented) A device according to claim 37, wherein the control unit further comprises a wireless transceiver connected to the electronic circuitry, such that an external device can wirelessly connect to the control unit via the i/o port and update the memory and control operation of the control unit.
- 39. (Previously Presented) A device according to claim 35, wherein the control unit comprises:

a pair of activation electrodes; and

a removable tab including a metallic strip connecting the activation electrodes, wherein the electronic circuitry detects when a current can pass between the activation electrodes and only supplies current to the output electrodes when the tab is removed such that no current passes between the activation electrodes.

## 40-47. (Canceled)

48. (Previously Presented) A device according to claim 29 wherein the control unit is also for constantly varying the frequency of the alternating current.

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